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PATENT
81476-302961

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Art Unit: Unknown

JOHN S. ADAMS, et al.

Examiner: Unassigned

Serial No: Unassigned

60/840,188

Filed: May 6, 2004

For: AN INTRACELLULAR ESTRADIOL
BINDING PROTEIN, A POLYNUCLEOTIDE
ENCODING THE SAME AND CELL LINES
OVEREXPRESSING THE SAME

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on August 19, 2004.

By:


Seth D. Levy, Reg. No. 44,869

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sirs:

Attached is Form PTO-1449 listing the enclosed references.

This IDS is being filed before the first office action has been issued in this application, and hence this IDS must be considered per Rule 97(b)(1).


This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Respectfully submitted,

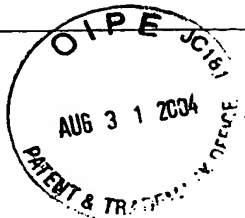
PILLSBURY WINTHROP LLP

Dated: August 19, 2004

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Atty. Dkt. No.	M#	Client Ref.
	81476-302961	ADAMS et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: John S. ADAMS et al.

Appln. No.: 10/840,038

Filing Date: May 6, 2004

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Examiner: Unknown Group Art Unit: Unknown

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 5,962,667	10/05/99	Jain et al.			
	BR US 6,476,196 B1	11/05/02	Ljunggren et al.			
	CR US 6,528,676 B1	3/04/03	D'Amato et al.			
	DR US 6,531,149 B1	3/11/03	Kirstgen et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
ER				Enclosed	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

FR	Brown, et al., Pituitary-Adrenal Function in the Squirrel Monkey, (1970) <i>Endocrinology</i> 86, 519-529				
GR	Chrousos, et al., Glucocorticoid Hormone Resistance During Primate Evolution: Receptor-Mediated Mechanisms, (1982) <i>Proc. Natl. Acad. Sci. U.S.A.</i> 79, 2036-2040				
HR	Chrousos, et al., Uterine Estrogen and Progesterone Receptors in an Estrogen- and Progesterone- "Resistant" Primate, (1984) <i>J. Clin. Endocrinol.</i> 58, 516-520				
IR	Chrousos, et al., Adaptation of the Mineralocorticoid Target Tissues to the High Circulating Cortisol and Progesterone Plasma Levels in the Squirrel Monkey, (1984) <i>Endocrinology</i> 115,25-32.				
JR	Chrousos, et al., Uterine Estrogen and Progesterone Receptors in an Estrogen- and Progesterone- "Resistant" Primate, (1984) <i>J. Clin. Endocrinol. Metab.</i> 58, 516-520				
KR	Chrousos, et al., The Squirrel Monkey: Receptor-Mediated End-Organ Resistance to Progesterone?, (1985) <i>J. Clin. Endocrinol. Metab.</i> 55, 364-368				
LR	Takahashi, et al., The Mechanism of End-Organ Resistance to 1 α ,25-dihydroxycholecalciferol in the Common Marmoset, (1985) <i>Biochem. J.</i> 227, 555-563				
MR	Adams, et al., Serum Concentrations of 1,25-Dihydroxyvitamin D ₃ in Playrrhini and Catarrhini: A Phylogenetic Appraisal, (1985) <i>Am. J. Primatol.</i> 9, 219-224				
NR	Siiteri, P. K., High Plasma Steroid Levels in the Squirrel Monkey: Deficient Receptors or Metabolisms?, (1986) <i>Adv. Exp. Med. Biol.</i> 196, 276-286				
OR	Gacad, et al., Influence of Ultraviolet B Radiation on Vitamin D ₃ Metabolism in Vitamin D ₃ -Resistant New World Primates, (1992) <i>Am. J. Primatol.</i> 28, 263-270				
PR	Reynolds, et al., Glucocorticoid Resistance in the Squirrel Monkey Is Associated with Overexpression of the Immunophilin FKBP51, (1999) <i>J. Clin. Endocrinol. Metab.</i> 84, 663-669				
QR	Reynolds, et al., Cloning and Expression of the Glucocorticoid Receptor from the Squirrel Monkey (<i>Saimiri boliviensis boliviensis</i>), a Glucocorticoid-Resistant Primate, (1997) <i>J. Clin.Endo. Metab.</i> 82, 465-472				
RR	Chun, et al., Cloning, Sequencing, and Functional Characterization of the Vitamin D Receptor in Vitamin D-Resistant New World Primates (2001) <i>Am. J. Primatol.</i> 54, 107-118				
SR	Bonnegard, et al., The Genetic Basis of Glucocorticoid Resistance, (1995) <i>Trends. Endocrinol. Metab.</i> 6, 160-164				

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (P)W FORM PAT-1449 Patent and Trademark Office		Atty. Dkt. No.	M# 81476-302961	Client Ref. ADAMS et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: John S. ADAMS et al.			
		Appln. No.: 10/840,038			
		Filing Date: May 6, 2004			
		Examiner: Unknown	Group Art Unit: Unknown		
Date: August 19, 2004		Page 2 Of 4			
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)					
TR	Denny, et al., Squirrel Monkey Immunophilin FKBP51 Is a Potent Inhibitor of Glucocorticoid Receptor Binding, (2000) <i>Endocrinol.</i> 141, 4107-4113				
UR	Chen, et al., The Vitamin D Response Element-Binding Protein, (2000) <i>J. Biol. Chem.</i> 275, 35557-35564.				
VR	Chen, et al., Vitamin D and Gonadal Steroid-Resistant New World Primate Cells Express an Intracellular Protein Which Competes with the Estrogen Receptor for Binding to the Estrogen Response Element, (1997) <i>J. Clin. Invest.</i> 99, 669-675				
WR	Chen, et al., Cloning and Expression of a Novel Dominant-Negative-acting Estrogen Response Element-binding Protein in the Heterogeneous Nuclear Ribonucleoprotein Family, (1998) <i>J. Biol. Chem.</i> 273, 31352-31357				
XR	Chen, et al., Purification and Characterization of a Novel Intracellular 17 β -Estradiol Binding Protein in Estrogen-Resistant New World Primate Cells, (2003) <i>J. Clin. Endocrinol. Metab.</i> 88, 501-504				
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ZR	Wu, et al., Intracellular Vitamin D Binding Proteins: Novel Facilitators of Vitamin D-Directed Transactivation, (2001) <i>Mol. Endocrinol.</i> 14, 1387-1397				
AAR	Gacad, et al., Proteins in the Heat Shock-70 Family Specifically Bind 25-Hydroxyvitamin D ₃ and 17 β -Estradiol, (1998) <i>J. Clin. Endocrinol. Metab.</i> 83, 1264-1267				
BBR	Pasta, et al., Role of the Conserved SRLFDQFFG Region of α -Crystallin, a Small Heat Shock Protein, (2003) <i>J Biol Chem</i> 278, 51159-51166				
CCR	Bullard, et al., Association of the Chaperone α B-crystallin with Titin in Heart Muscle, (2004). <i>J Biol Chem.</i> 279, 7917-7924				
DDR	Sathish, et al., Mechanism of Chaperone Function in Small Heat-shock Proteins, (2003) <i>J Biol Chem.</i> 278, 44214-21				
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FFR	Tamrazi, et al., Estrogen Receptor Dimerization: Ligand Binding Regulates Dimer Affinity and Dimer Dissociation Rate, (2002) <i>Mol Endocrinol.</i> 16, 2706-2719				
GGR	Greene, et al., Sequence and Expression of Human Estrogen Receptor Complementary DNA, (1986) <i>Science</i> 231 (4742), 1150-1154				
HHR	Hickey, et al., Sequence and Organization of Genes Encoding the Human 27 kDa Heat Shock Protein, (1986) <i>Nucleic Acid Res.</i> 14, 4127-4145				
IIR	Witek, A., TYPY ALTERNATYWNEGO SKŁADANIA RECEPTORÓW ESTROGENOWYCH ALFA I BETA, (2003) <i>Ginekol PolMar</i> 74, 246-51				
JJR	Ferro, et al., Alternative Splicing of the Human Estrogen Receptor α Primary Transcript: Mechanisms of Exon Skipping, (2003) <i>Int J Mol Med.</i> 12, 355-63				
KKR	Mckenna, et al., Nuclear Receptor Coregulators: Cellular and Molecular Biology, (1999) <i>Endocrine Reviews</i> 20, 321-344				
LLR	Kumar, et al., The Structure of the Nuclear Hormone Receptors, (1999) <i>Steroids</i> 64, 310-319				
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MMR	Klein-Hitpass, et al., Targets of Activated Steroid Hormone Receptors: Basal Transcription Factors and Receptor Interacting Proteins, (1998) <i>J. Mol. Med.</i> 76, 490-496			
NNR	Simpson, et al., Minireview: Aromatase and the Regulation of Estrogen Biosynthesis—Some New Perspectives, (2001) <i>Endocrinol.</i> 142, 4589-4594			
OOR	Labrie, et al., Intracrinology: role of the family of 17 β -hydroxysteroid dehydrogenases in human physiology and disease, (2000) <i>J. Mol. Endocrinol.</i> 25,1-16			
PPR	Kumar, et al., The Estrogen Receptor Binds Tightly to Its Responsive Element as a Ligand-Induced Homodimer, (1988) <i>Cell</i> 55,145-156			
QQR	Wood, et al., Estrogen Response Elements Function as Allosteric Modulators of Estrogen Receptor Conformation, (1998) <i>Mol Cell Biol</i> 18,1927-1934			
RRR	Chen, et al., Heterogeneous Nuclear Ribonucleoprotein (hnRNP) binding to hormone response elements: A cause of vitamin D resistance, (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 6109-6114			
SSR	Wu, et al., Regulation of 1,25-Dihydroxyvitamin D Synthesis by Intracellular Vitamin D Binding Protein-1, (2002). <i>Endocrinology</i> 143,4135-4138			
TTR	Adams, et al., Novel Regulators of Vitamin D Action and Metabolism: Lessons Learned at the Los Angeles Zoo, (2003) <i>J Cell Biochem.</i> 88, 308-314			
UUR	Ciocca, et al., Biological and Clinical Implications of Heat Shock Protein 27000 (Hsp27): a Review, (1993). <i>J Natl Cancer Inst</i> 85, 1558-1570			
VVR	De Jong, et al., Genealogy of the α -crystallin – small heat-shock protein superfamily, (1998). <i>Int J Biol Macromol</i> 22, 151-162			
WWI	Narberhaus, α -Crystallin-Type Heat Shock Proteins: Socializing Minichaperones in the Context of a Multichaperone Network, (2002). <i>Microbiol Mol Biol Rev</i> 66, 64-93			
XXR	Schlesinger, et al., Heat Shock Proteins, (1990). <i>J Biol Chem</i> 265, 12111-12114			
YYR	Stock, et al., <i>Heat Shock Protein 27</i> Gene: Chromosomal and Molecular Location and Relationship to Williams Syndrome, (2003). <i>Am J Med Genet</i> 120, 320-325			
ZZR	Welsh, et al., Small Heat-Shock Protein Family: Function in Health and Disease, (1998). <i>Ann N Y Acad Sci</i> 851, 28-35			
AAA	Young, et al., Molecular Chaperones Hsp90 and Hsp70 Deliver Preproteins to the Mitochondrial Import Receptor Tom70, (2003) <i>Cell.</i> 112, 41-50			
BBB	Concannon, et al., On the Role of Hsp27 in Regulating Apoptosis, (2003). <i>Apoptosis</i> 8, 61-70			
CCC	Gerthoffer, et al., <i>Signal Transduction in Smooth Muscle</i> Invited Review: Focal adhesion and small heat shock proteins in the regulation of actin remodeling and contractility in smooth muscle, (2001). <i>J Appl Physiol</i> 91, 963-72			
DDD	Jia, et al., Identification and Characterization of hic-5/ARA55 as an hsp27 Binding Protein, (2001). <i>J Biol Chem</i> 276, 39911-8			
EEE	Haslbeck, M., sHsps And Their Role in the Chaperone Network, (2002). <i>Cell Mol Life Sci</i> 59, 1649-1657			
FFFF	Fu, et al., Enhanced Stability of α B-Crystallin in the Presence of Small Heat Shock Protein Hsp27, (2003) <i>Biochem Biophys Res Commun</i> 302, 710-714			
GGG	MacRae, T. H., Structure and Function of Small Heat Shock/ α -Crystallin Proteins: Established Concepts and Emerging Ideas, (2000) <i>Cell Mol Life Sci</i> 57, 899-913			
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HHH	Oesterreich, et al., The Small Heat Shock Protein HSP27 Is Not an Independent Prognostic Marker in Axillary Lymph Node-negative Breast Cancer Patients, (1996). <i>Clin Cancer Res</i> 2, 1199-1206			
IIIR	Porter, et al., Role of Estrogen Receptor/Sp1 Complexes in Estrogen-Induced Heat Shock Protein 27 Gene Expression, (1996) <i>Mol Endocrinol.</i> 10, 1371-8			
JJJR	Porter, et al., Transcriptional activation of heat shock protein 27 gene expression by 17β-estradiol and modulation by antiestrogens and aryl hydrocarbon receptor agonists, (2001). <i>J Mol Endocrinol.</i> 26, 31-42			
KKK	Hutchison, et al., Regulation of Glucocorticoid Receptor Function through Assembly of a Receptor-Heat Shock Protein Complex, (1993) <i>Ann. N. Y. Acad. Sci.</i> 684, 35-48			
LLL	Sabbah, et al., The 90 kDa heat-shock protein (hsp90) modulates the binding of the oestrogen receptor to its cognate DNA, (1996) <i>Biochem. J.</i> 314, 205-213			
MMM	Clemmons, et al., Insulin-Like Growth Factor Binding Protein Secretion by Breast Carcinoma Cell Lines: Correlation with Estrogen Receptor Status, 1990 <i>Endocrinology.</i> 127, 2679-2686			
NNN	Smith, et al., Chemoprevention of Breast Cancer by Tamoxifen: Risks and Opportunities, (2000) <i>Crit Rev Toxicol.</i> 30, 571-594			
OOO	Riggs, et al., Selective Estrogen-Receptor Modulators – Mechanisms of Action and Application to Clinical Practice, (2003) <i>N Engl J Med.</i> 348, 618-629			
PPP	Takahashi, et al., Immunohistochemical Detection of Estrogen Receptor in Invasive Human Breast Cancer: Correlation with Heat Shock Proteins, pS2 and Oncogene Products, (1995) <i>Oncol.</i> 52, 371-375			
QQQ	Munoz de Toro, et al., Lack of Relationship Between the Expression of Hsp27 Heat Shock Estrogen Receptor-associated Protein and Estrogen Receptor or Progesterone Receptor Status in Male Breast Carcinoma (1997) <i>J. Steroid Biochem. Mol. Biol.</i> 60, 277-284			
RRR	Frye, et al., Enhancing effects of estrogen on inhibitory avoidance performance may be in part independent of intracellular estrogen receptors in the hippocampus, 2002 <i>Brain Res</i> 956, 285-293			
SSS	Ciana, et al., In vivo imaging of transcriptionally active estrogen receptors, 2003, <i>Nat Med</i> , 9, 82-86			
TTT	Chen, et al., Purification and characterization of a novel intracellular 17 beta-estradiol binding protein in estrogen-resistant New World primate cells, 2003, <i>J Clin Endocrinol Metab.</i> , 88, 501-504			
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